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☐ 1. Document ID: US 6632435 B1

L11: Entry 1 of 3

File: USPT

Oct 14, 2003

US-PAT-NO: 6632435

DOCUMENT-IDENTIFIER: US 6632435 B1

TITLE: CTL epitope analogs

DATE-ISSUED: October 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Diamond; Don J.	Glendora	CA		

US-CL-CURRENT: 424/186.1; 424/204.1, 424/230.1, 424/231.1, 424/93.1, 424/93.71,
514/15, 530/300, 530/328

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Draw D
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☐ 2. Document ID: US 6562345 B1

L11: Entry 2 of 3

File: USPT

May 13, 2003

US-PAT-NO: 6562345

DOCUMENT-IDENTIFIER: US 6562345 B1

TITLE: Immuno-reactive peptide CTL epitopes of human cytomegalovirus

DATE-ISSUED: May 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Diamond; Don J.	Glendora	CA		

US-CL-CURRENT: 424/186.1; 424/204.1, 424/230.1, 424/231.1, 424/93.1, 424/93.71,
530/300, 530/328

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Draw D
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☐ 3. Document ID: US 6544521 B2

L11: Entry 3 of 3

File: USPT

Apr 8, 2003

US-PAT-NO: 6544521

DOCUMENT-IDENTIFIER: US 6544521 B2

TITLE: Immunoreactive peptide CTL epitopes of human cytomegalovirus pp150

DATE-ISSUED: April 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Diamond; Don J.	Glendora	CA		

US-CL-CURRENT: 424/186.1; 424/230.1, 424/93.7, 435/235.1, 435/320.1, 435/5, 514/15,
530/327

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KWIC	Draw D
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Terms	Documents
Diamond Don J.in.	3

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☐ 1. Document ID: US 6579970 B2

L22: Entry 1 of 4

File: USPT

Jun 17, 2003

US-PAT-NO: 6579970

DOCUMENT-IDENTIFIER: US 6579970 B2

TITLE: Therapeutic anti-cytomegalovirus compounds

DATE-ISSUED: June 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Nicolette; Charles A.</u>	Framingham	MA		

US-CL-CURRENT: 530/328; 424/184.1, 424/185.1, 424/186.1, 424/230.1, 424/9.1, 435/2,
435/7.1, 435/7.21, 530/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Drawings	Draw. De
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☐ 2. Document ID: US 6528060 B1

L22: Entry 2 of 4

File: USPT

Mar 4, 2003

US-PAT-NO: 6528060

DOCUMENT-IDENTIFIER: US 6528060 B1

TITLE: Therapeutic compounds

DATE-ISSUED: March 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Nicolette; Charles A.</u>	Framingham	MA		

US-CL-CURRENT: 424/185.1; 530/328

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Drawings	Draw. De
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☐ 3. Document ID: US 6338945 B1

L22: Entry 3 of 4

File: USPT

Jan 15, 2002

US-PAT-NO: 6338945

DOCUMENT-IDENTIFIER: US 6338945 B1

TITLE: Method for identifying cytotoxic T-cell epitopes

DATE-ISSUED: January 15, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nicolette; Charles A.	Marlborough	MA		

US-CL-CURRENT: 435/7.1; 435/4, 435/DIG.1, 435/DIG.15, 435/DIG.35, 436/518, 530/300, 530/328

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 4. Document ID: US 6306640 B1

L22: Entry 4 of 4

File: USPT

Oct 23, 2001

US-PAT-NO: 6306640

DOCUMENT-IDENTIFIER: US 6306640 B1

TITLE: Melanoma antigenic peptides

DATE-ISSUED: October 23, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nicolette; Charles A.	Marlborough	MA		

US-CL-CURRENT: 435/252.3; 514/15, 514/2, 514/769, 530/328

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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Terms	Documents
Nicolette Charles A.in.	4

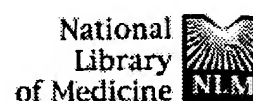
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<input type="checkbox"/>	L19	cytomegalovirus and enriched T cell	0
		<i>DB=USPT; PLUR=YES; OP=ADJ</i>	
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<input type="checkbox"/>	L2	6562345.pn.	1
<input type="checkbox"/>	L1	6727093.pn.	0

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- ☐ 1: [Rauser G, Einsele H, Sinzger C, Wernet D, Kuntz G, Assenmacher M, Campbell JD, Topp MS.](#) Related Articles, Links

Rapid generation of combined CMV-specific CD4+ and CD8+ T-cell lines for adoptive transfer into allogeneic stem cell transplant recipients. Blood. 2003 Dec 11 [Epub ahead of print] PMID: 14670917 [PubMed - as supplied by publisher]

- ☐ 2: [Foster AE, Gottlieb DJ, Sartor M, Hertzberg MS, Bradstock KF.](#) Related Articles, Links

Cytomegalovirus-specific CD4+ and CD8+ T-cells follow a similar reconstitution pattern after allogeneic stem cell transplantation. Biol Blood Marrow Transplant. 2002;8(9):501-11. PMID: 12374455 [PubMed - indexed for MEDLINE]

- ☐ 3: [Vannucchi AM, Glinz S, Bosi A, Caporale R, Rossi-Ferrini P.](#) Related Articles, Links

Selective ex vivo expansion of cytomegalovirus-specific CD4+ and CD8+ T lymphocytes using dendritic cells pulsed with a human leucocyte antigen A*0201-restricted peptide. Br J Haematol. 2001 May;113(2):479-82. PMID: 11380419 [PubMed - indexed for MEDLINE]

- ☐ 4: [Foster AE, Gottlieb DJ, Marangolo M, Bartlett A, Li YC, Barton GW, Romagnoli JA, Bradstock KF.](#) Related Articles, Links

Rapid, large-scale generation of highly pure cytomegalovirus-specific cytotoxic T cells for adoptive immunotherapy. J Hematother Stem Cell Res. 2003 Feb;12(1):93-105. PMID: 12662440 [PubMed - indexed for MEDLINE]

- ☐ 5: [Peggs K, Verfuert S, Mackinnon S.](#) Related Articles, Links


Induction of cytomegalovirus (CMV)-specific T-cell responses using dendritic cells pulsed with CMV antigen: a novel culture system free of live CMV virions. Blood. 2001 Feb 15;97(4):994-1000. PMID: 11159528 [PubMed - indexed for MEDLINE]







- ☐ 6: [van Rhee F, Barrett J.](#) Related Articles, Links

Adoptive transfer of Ag-specific T cells to prevent CMV disease after allogeneic stem-cell transplantation. Cytotherapy. 2002;4(1):3-10. Review. PMID: 11953036 [PubMed - indexed for MEDLINE]

- ☐ 7: [Einsele H, Rauser G, Grigoleit U, Hebart H, Sinzger C, Riegler S, Jahn G.](#) Related Articles, Links

Induction of CMV-specific T-cell lines using Ag-presenting cells pulsed

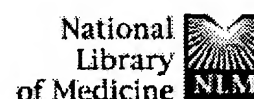
-  with CMV protein or peptide.
Cytotherapy. 2002;4(1):49-54.
PMID: 11953041 [PubMed - indexed for MEDLINE]
- ☐ 8: [Feuchtinger T, Lang P, Hamprecht K, Schumm M, Greil J, Jahn G, Niethammer D, Einsele H.](#) Related Articles, Links
[Isolation and expansion of human adenovirus-specific CD4+ and CD8+ T cells according to IFN-gamma secretion for adjuvant immunotherapy.](#)
Exp Hematol. 2004 Mar;32(3):282-9.
PMID: 15003314 [PubMed - in process]
- ☐ 9: [Tazume K, Hagihara M, Gansuud B, Higuchi A, Ueda Y, Hirabayashi K, Hojo M, Tanabe A, Okamoto A, Kato S, Hotta T.](#) Related Articles, Links
[Induction of cytomegalovirus-specific CD4+ cytotoxic T lymphocytes from seropositive or negative healthy subjects or stem cell transplant recipients.](#)
Exp Hematol. 2004 Jan;32(1):95-103.
PMID: 14725906 [PubMed - indexed for MEDLINE]
- ☐ 10: [Ozdemir E, St John LS, Gillespie G, Rowland-Jones S, Champlin RE, Molldrem JJ, Komanduri KV.](#) Related Articles, Links
[Cytomegalovirus reactivation following allogeneic stem cell transplantation is associated with the presence of dysfunctional antigen-specific CD8+ T cells.](#)
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PMID: 12393402 [PubMed - indexed for MEDLINE]
- ☐ 11: [Einsele H, Roosnek E, Rufer N, Sinzger C, Riegler S, Loffler J, Grigoleit U, Moris A, Rammensee HG, Kanz L, Kleihauer A, Frank F, Jahn G, Hebart H.](#) Related Articles, Links
[Infusion of cytomegalovirus \(CMV\)-specific T cells for the treatment of CMV infection not responding to antiviral chemotherapy.](#)
Blood. 2002 Jun 1;99(11):3916-22.
PMID: 12010789 [PubMed - indexed for MEDLINE]
- ☐ 12: [Sester M, Sester U, Gartner BC, Girndt M, Meyerhans A, Kohler H.](#) Related Articles, Links
[Dominance of virus-specific CD8 T cells in human primary cytomegalovirus infection.](#)
J Am Soc Nephrol. 2002 Oct;13(10):2577-84.
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- ☐ 13: [Gratama JW, van Esser JW, Lamers CH, Tournay C, Lowenberg B, Bolhuis RL, Cornelissen JJ.](#) Related Articles, Links
[Tetramer-based quantification of cytomegalovirus \(CMV\)-specific CD8+ T lymphocytes in T-cell-depleted stem cell grafts and after transplantation may identify patients at risk for progressive CMV infection.](#)
Blood. 2001 Sep 1;98(5):1358-64.
PMID: 11520783 [PubMed - indexed for MEDLINE]
- ☐ 14: [Reusser P, Attenhofer R, Hebart H, Helg C, Chapuis B, Einsele H.](#) Related Articles, Links
[Cytomegalovirus-specific T-cell immunity in recipients of autologous peripheral blood stem cell or bone marrow transplants.](#)
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- ☐ **15:** [Greenberg PD, Reusser P, Goodrich JM, Riddell SR.](#) [Related Articles, Links](#)
 Development of a treatment regimen for human cytomegalovirus (CMV) infection in bone marrow transplantation recipients by adoptive transfer of donor-derived CMV-specific T cell clones expanded in vitro.
 Ann N Y Acad Sci. 1991 Dec 30;636:184-95.
 PMID: 1665321 [PubMed - indexed for MEDLINE]
- ☐ **16:** [Riddell SR, Reusser P, Greenberg PD.](#) [Related Articles, Links](#)
 Cytotoxic T cells specific for cytomegalovirus: a potential therapy for immunocompromised patients.
 Rev Infect Dis. 1991 Nov-Dec;13 Suppl 11:S966-73. Review.
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- ☐ **17:** [Keenan RD, Ainsworth J, Khan N, Bruton R, Cobbold M, Assenmacher M, Milligan DW, Moss PA.](#) [Related Articles, Links](#)
 Purification of cytomegalovirus-specific CD8 T cells from peripheral blood using HLA-peptide tetramers.
 Br J Haematol. 2001 Nov;115(2):428-34.
 PMID: 11703346 [PubMed - indexed for MEDLINE]
- ☐ **18:** [Gratama JW, Cornelissen JJ.](#) [Related Articles, Links](#)
 Diagnostic potential of tetramer-based monitoring of cytomegalovirus-specific CD8+ T lymphocytes in allogeneic stem cell transplantation.
 Clin Immunol. 2003 Jan;106(1):29-35.
 PMID: 12584048 [PubMed - indexed for MEDLINE]
- ☐ **19:** [Walter EA, Greenberg PD, Gilbert MJ, Finch RJ, Watanabe KS, Thomas ED, Riddell SR.](#) [Related Articles, Links](#)
 Reconstitution of cellular immunity against cytomegalovirus in recipients of allogeneic bone marrow by transfer of T-cell clones from the donor.
 N Engl J Med. 1995 Oct 19;333(16):1038-44.
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- ☐ **20:** [Szmania S, Galloway A, Bruorton M, Musk P, Aubert G, Arthur A, Pyle H, Hensel N, Ta N, Lamb L Jr, Dodi T, Madrigal A, Barrett J, Henslee-Downey J, van Rhee F.](#) [Related Articles, Links](#)
 Isolation and expansion of cytomegalovirus-specific cytotoxic T lymphocytes to clinical scale from a single blood draw using dendritic cells and HLA-tetramers.
 Blood. 2001 Aug 1;98(3):505-12.
 PMID: 11468143 [PubMed - indexed for MEDLINE]

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www.bloodjournal.org**Development of a candidate HLA A*0201 restricted peptide-based vaccine against human cytomegalovirus infection.****Diamond DJ, York J, Sun JY, Wright CL, Forman SJ.**

Department of Hematology and Bone Marrow Transplantation, City of Hope Medical Center, Duarte, CA 91010, USA.

The development of a protective cellular immune response against human cytomegalovirus (HCMV) is the most important determinant of recovery from HCMV infection after allogeneic bone marrow transplantation (BMT). The ultimate aim of our study is to develop an antigen-specific and peptide-based vaccine strategy against HCMV in the setting of BMT. Toward this end we have studied the cellular immune response against the immunodominant matrix protein pp65 of HCMV. Using an HLA A*0201-restricted T-cell clone reactive against pp65 from peripheral blood from a seropositive individual, we have mapped the position of the cytolytic T lymphocyte (CTL) epitope from HCMV pp65 to an 84-amino acid segment. Of the four peptides which best fit the HLA A*0201 motif in that region, one nonamer sensitized an autologous Epstein-Barr virus immortalized lymphocyte cell line for lysis. In vitro immunization of PBMC from HLA A*0201 and HCMV seropositive volunteers using the defined nonamer peptide stimulated significant recognition of HCMV infected or peptide-sensitized fibroblasts. Similarly, HLA A*0201 transgenic mice immunized with the nonamer peptide developed CTL that recognize both the immunizing peptide and endogenously processed pp65 in an HLA A*0201 restricted manner. Lipid modification of the amino terminus of the nonamer peptide resulted in its ability to stimulate immune responses without the use of adjuvant. This demonstration of a vaccine function of the nonamer peptide without adjuvant suggests its potential for use in an immunization trial of BMT donors to induce protective CTLs in patients undergoing allogeneic BMT.

PMID: 9292508 [PubMed - indexed for MEDLINE]

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☐ 1. Document ID: US 6706477 B2

L15: Entry 1 of 23

File: USPT

Mar 16, 2004

US-PAT-NO: 6706477

DOCUMENT-IDENTIFIER: US 6706477 B2

TITLE: Methods for producing polynucleotide libraries in vaccinia virus

DATE-ISSUED: March 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zauderer; Maurice	Pittsford	NY		

US-CL-CURRENT: 435/6; 435/320.1, 435/325, 435/456, 435/457, 435/463, 536/23.1,
536/24.1, 536/24.2

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RWC	Draw. D
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☐ 2. Document ID: US 6677307 B2

L15: Entry 2 of 23

File: USPT

Jan 13, 2004

US-PAT-NO: 6677307

DOCUMENT-IDENTIFIER: US 6677307 B2

TITLE: TGF-.alpha. polypeptides, functional fragments and methods of use therefor

DATE-ISSUED: January 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Twardzik; Daniel R.	Bainbridge Island	WA		
Pernet; Andre	Lake Forest	IL		
Felker; Thomas S.	Vashon	WA		
Paskell; Stefan	Bainbridge Island	WA		
Reno; John M.	Brier	WA		

US-CL-CURRENT: 514/12; 530/300, 530/402

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D
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☐ 3. Document ID: US 6660905 B1

L15: Entry 3 of 23

File: USPT

Dec 9, 2003

US-PAT-NO: 6660905

DOCUMENT-IDENTIFIER: US 6660905 B1

TITLE: Mice comprising engrafted functional human hepatocytes

DATE-ISSUED: December 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kay; Mark A.	Los Altos	CA		
Ohashi; Kazuo	Palo Alto	CA		

US-CL-CURRENT: 800/8; 424/93.1, 530/388.1, 530/388.15, 530/388.2

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D
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☐ 4. Document ID: US 6660255 B1

L15: Entry 4 of 23

File: USPT

Dec 9, 2003

US-PAT-NO: 6660255

DOCUMENT-IDENTIFIER: US 6660255 B1

TITLE: Inhibition of gene transcription by polyamide DNA-binding ligands

DATE-ISSUED: December 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gottesfeld; Joel M.	Del Mar	CA		
Dervan; Peter B.	San Marino	CA		
Mosier; Donald E.	Del Mar	CA		
Baird; Eldon E.	Lexington	SC		

US-CL-CURRENT: 424/78.36

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D
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☐ 5. Document ID: US 6627198 B2

L15: Entry 5 of 23

File: USPT

Sep 30, 2003

US-PAT-NO: 6627198

DOCUMENT-IDENTIFIER: US 6627198 B2

TITLE: Fusion proteins of Mycobacterium tuberculosis antigens and their uses

DATE-ISSUED: September 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reed; Steven G.	Bellevue	WA		
Skeiky; Yasir A.	Seattle	WA		
Dillon; Davin C.	Redmond	WA		
Alderson; Mark	Bainbridge Island	WA		
Campos-Neto; Antonio	Bainbridge Island	WA		

US-CL-CURRENT: 424/190.1, 424/130.1, 424/164.1, 424/168.1, 424/248.1, 424/9.2,
435/69.1, 435/69.3, 514/44, 530/350, 536/23.1, 536/23.7

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMIC	Draw D
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☐ 6. Document ID: US 6602709 B1

L15: Entry 6 of 23

File: USPT

Aug 5, 2003

US-PAT-NO: 6602709

DOCUMENT-IDENTIFIER: US 6602709 B1

TITLE: Methods for use of apoptotic cells to deliver antigen to dendritic cells for induction or tolerization of T cells

DATE-ISSUED: August 5, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Albert; Matthew L.	New York	NY		
Bhardwaj; Nina	West Orange	NJ		
Steinman; Ralph M.	Westport	CT		
Inaba; Kayo	Kyoto			JP
Darnell; Robert	Pelham	NY		

US-CL-CURRENT: 435/372, 424/184.1, 424/277.1, 424/278.1, 435/2, 435/366, 435/372.1,
435/373

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMIC	Draw D
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☐ 7. Document ID: US 6593511 B1

L15: Entry 7 of 23

File: USPT

Jul 15, 2003

US-PAT-NO: 6593511

DOCUMENT-IDENTIFIER: US 6593511 B1

TITLE: Models of chronic and acute inflammatory diseases

DATE-ISSUED: July 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ehrhardt; Rolf	San Francisco	CA		
Hong; Kenneth	El Cerrito	CA		

US-CL-CURRENT: 800/9; 424/9.1, 424/9.2, 424/93.21, 424/93.7, 435/375, 435/4,
800/11, 800/8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	HOWC	Draw D
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☐ 8. Document ID: US 6551820 B1

L15: Entry 8 of 23

File: USPT

Apr 22, 2003

US-PAT-NO: 6551820

DOCUMENT-IDENTIFIER: US 6551820 B1

TITLE: Expression of immunogenic hepatitis B surface antigens in transgenic plants

DATE-ISSUED: April 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mason; Hugh S.	Ithaca	NY		
Thanavala; Yasmin	Williamsville	NY		
Arntzen; Charles Joel	Ithaca	NY		
Richter; Elizabeth	Ithaca	NY		

US-CL-CURRENT: 435/320.1; 435/69.3, 435/71.2, 536/23.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	HOWC	Draw D
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☐ 9. Document ID: US 6544787 B1

L15: Entry 9 of 23

File: USPT

Apr 8, 2003

US-PAT-NO: 6544787

DOCUMENT-IDENTIFIER: US 6544787 B1

TITLE: Non-myeloablative/lymphoablative conditioning regimen to induce patient anti-donor unresponsiveness in stem cell transplantation

DATE-ISSUED: April 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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